

Title (en)

PROCESS FOR PREPARING MOISTURE-CURABLE ORGANOPOLYSILOXANE COMPOSITIONS BY CONDENSING ORGANOSILICEN COMPOUNDS HAVING SILICON-BOUND HYDROXYL GROUPS, ALKOXY-SILYLATED CROSS-LINKING AGENTS AND A SUBSTITUTED HYDROXYL AMINE; COMPOSITIONS AND THEIR USE IN OBTAINING CURED MATERIALS

Publication

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Application

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Priority

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Abstract (en)

[origin: EP0070786A1] 1. Process for preparing organosilicon compositions capable of being converted into materials which are set on being exposed to moisture and in the presence of substituted hydroxylamine, which is used as catalyst, characterized in that, in order to prepare single-component compositions which are stable in storage, the following are reacted : 1) at least one alpha, omega-dihydroxypolysiloxane, 2) at least one monomeric crosslinking agent containing polyalkoxysilylated groups which is chosen from the class consisting of : a) the polyalkoxysilanes of formulae :  $R_x Si(OR')^{4-x} R_x Si[(OCH_2 - CH_2)_a OR']^{4-x}$  in which the radicals R, which are identical or different, denote nonhydrolysable hydrocarbon radicals, X denotes an integer equal to 1 or 2, a denotes 0 or 1 and R' denotes an alkyl radical containing from 1 to 4 carbon atoms, b) the silicates of formula :  $Si(OR')_4$  in which R' has the same meaning as above, 3) from 0.1 to 2% by weight, based on the total weight of the composition, of a substituted hydroxylamine as a crosslinking catalyst, the said crosslinking agent (2) being in such quantity that there are from 1 to 5 polyalkoxylated groups per silanol group, 4) a setting accelerator chosen from tin derivatives and/or titanium derivatives.

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Cited by

EP0380875A3; EP0382338A3; FR2773165A1; EP1288252A3; EP0210402A3; US4705826A; US5728794A; EP1022302A3; US5310844A; EP0449747A1; FR2658828A1; US5087684A; US6455617B1; US7211330B2; WO9933911A1; WO03002634A3

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